

1081
(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
14. September 2000 (14.09.2000)

PCT

(10) Internationale Veröffentlichungsnummer
WO 00/53728 A3

(51) Internationale Patentklassifikation⁷: C12N 5/08, C12M 3/04, G01N 1/06, C12N 5/06
(74) Anwalt: WABLAT, Wolfgang; Potsdamer Chaussee 48,
D-14129 Berlin (DE).

(21) Internationales Aktenzeichen: PCT/DE00/00528

(81) Bestimmungsstaaten (*national*): AU, CN, JP, KR, US.

(22) Internationales Anmeldedatum:

18. Februar 2000 (18.02.2000)

(84) Bestimmungsstaaten (*regional*): eurasisches Patent (AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches Patent
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE).

(25) Einreichungssprache: Deutsch

Deutsch

(26) Veröffentlichungssprache: Deutsch

Veröffentlicht:

— Mit internationalem Recherchenbericht.

(30) Angaben zur Priorität:

199 12 798.0 10. März 1999 (10.03.1999) DE

(88) Veröffentlichungsdatum des internationalen
Recherchenberichts: 19. April 2001

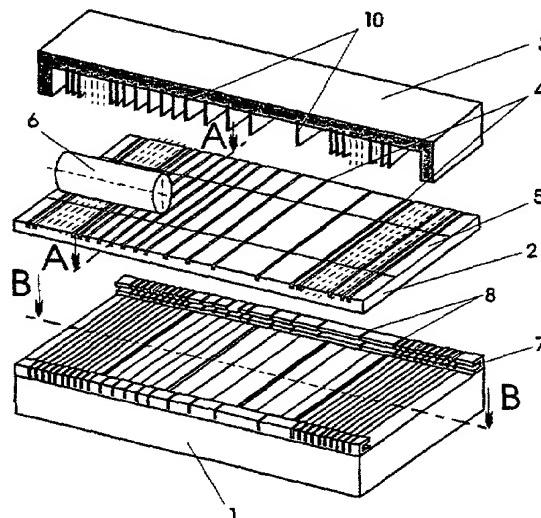
(71) Anmelder und

(72) Erfinder: JORDAN, Andreas [DE/DE]; Dahlemer Weg
63 A, D-14167 Berlin (DE).

[Fortsetzung auf der nächsten Seite]

(54) Title: METHOD FOR CULTIVATING CANCER CELLS FROM HUMAN TISSUE AND DEVICE FOR PREPARING TISSUE SAMPLES

(54) Bezeichnung: VERFAHREN ZUR KULTIVIERUNG VON KREBSZELLEN AUS HUMANGEWEBE UND VORRICHTUNG ZUR AUFBEREITUNG VON GEWEBEPROBEN



(57) Abstract: The invention relates to a method for cultivating cancer cells for scientific serial assays, wherein a tissue sample which is heterogeneous with respect to contaminants, normal cells and tumor cells is locally separated in a sequential-parallel splitting method. The locally separated sample segments are further split, wherein the tissue fragments and liquids of the tissue segments are separately placed in a given cell culture medium and grown under predetermined culture conditions. The invention also relates to a cell culture medium and a device for splitting the tissue samples into disc segments. The inventive method combined with the splitting device and the culture medium enables fast cultivation of cancer cells obtained from human tissue with a multiplication rate of 100 % in all types of tumors.

[Fortsetzung auf der nächsten Seite]

WO 00/53728 A3

Abstract

The invention relates to a method for cultivating cancer cells for scientific serial assays, wherein a tissue sample which is heterogeneous with respect to contaminants, normal cells and tumor cells is locally separated in a sequential-parallel splitting method. The locally separated sample segments are further split, wherein the tissue fragments and liquids of the tissue segments are separately placed in a given cell culture medium and grown under predetermined culture conditions. The invention also relates to a cell culture medium and a device for splitting the tissue samples into disc segments. The inventive method combined with the splitting device and the culture medium enables fast cultivation of cancer cells obtained from human tissue with a multiplication rate of 100% in all types of tumors.

20